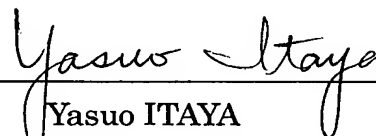




## CERTIFICATION

I, Yasuo Itaya, whose address is Tokushima Bldg., 7<sup>th</sup> Floor, 9-10, Minamisemba 3-chome, Chuo-ku, Osaka JAPAN, hereby certify that I am the translator of the attached document "Request for Patent/Utility model application" and that the translation is a true and correct translation from the Japanese language to the English language to the best of my knowledge and belief..

This 28th day of December, 2004

  
\_\_\_\_\_  
Yasuo ITAYA



Request for Patent/Utility model application 1/2

Decision Date: December 15, 2000		Number A00-1404		Receipt Date: November 8, 2000	
Approval (director in charge)		Division name: Development Engineering Division (DIV)			
Approved	Rejected	Stamp of approval		Drafter	
Note of final decision  Prior application		Intellectual Property Division		Council	
		Stamp of approval	Stamp of approval		

[To be completed by Intellectual Property Division]

Number of inventors	[ ]	Category	[P.U.G]
Applicant	[ ]	In-house Classification A	[E.M.S]
Joint Applicant	[ ]	In-house Classification C	[ ]
Rate of distributed cost	[ ]	Rank	[S.A.B.C.D]
Number of applicants	[ ]	Number of claims at the time of decision [ ]	
Person in charge	[ ]	Scheduled Foreign Application [ ]	
Invention management division	[ ]		
Other divisions	[ ]		

[To be completed by the drafter]

A) Number of inventions

One invention

B) Title of the invention

Digital television receiver

C) Whether or not the technology is scheduled for implementation

Yes No Project name, etc.:

D) Drafter (full name with staff code)

1. Takao Washino 90038

E) Summary (Objects and Effects, preferably with schematic diagrams)

[Objects]

In digital television receivers, an error in local oscillation frequency at a tuner can make reception of signals impossible or time-consuming. The object is to solve such a problem.

[Effects]

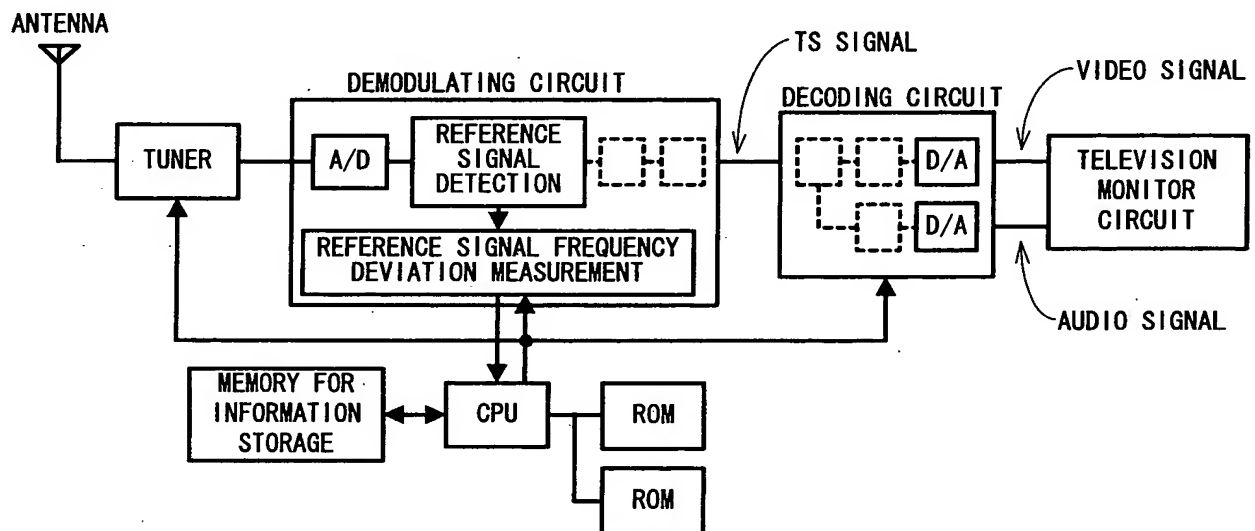
By changing settings on a tuner based on deviation information stored in a memory, the above mentioned problem can be solved.

Request for Patent/Utility model application 2/2

[Description, Embodiments]

1. In a digital television system using reference signals for demodulation of signals, a receiver includes a circuit to detect reference signals and measure a reference signal frequency deviation and a memory for storing frequency deviation information so as to store information about deviation between the frequency of detected reference signals and a proper reference frequency.
2. The receiver wherein the digital television system using the reference signals for demodulation of signals is a U.S. digital terrestrial television (ATSC) system.

[Drawings, Circuit diagrams, flowcharts, block diagrams, etc.]



[Prior Art]

When the frequency of detected reference signals is deviate by a large amount from a proper frequency, data cannot be demodulated within an IC. A large error in local frequency at a tuner can possibly make signal reception impossible.

F) Attached documents (publication of other companies, brochure, drawings using CAD, etc.)

特許・実用新案出願のための申請書 1/2

決定日	平成12年12月15日	番号	A00-1404			受付日	12年11月8日	
承認(担当理事)		部署名: 開発技術部 (DTV)						
可決	否決	検印	検印	検印	起案者	起案者	起案者	
決裁付記	先出願				知的財産権部		合議	
					検印	検印		

【知財部記載欄】

発明者数	[ 1 ]	四法区分	[ P · U · G ]	
出願人	[ 366450 ]	社内分類 A	[ E · M · S ]	
共同出願人	[ ]	社内分類 C	[ V · C · 2 ]	[ ] [ ]
自社費用分担率	[ 100 ]	ラング	[ S · A ]	[ B · C · D ]
出願人数	[ 1 ]	決定時請求項数	[ 01 ]	
担当者	[ 011244 ]	外国出願国	[ US ]	[ ]
発明・管理部署	[ 56 ]		[ ]	[ ]
その他の部署	[ ]		[ ]	[ ]

【起案者記載欄】 (太枠内を記入し、上の起案者欄に捺印して下さい)

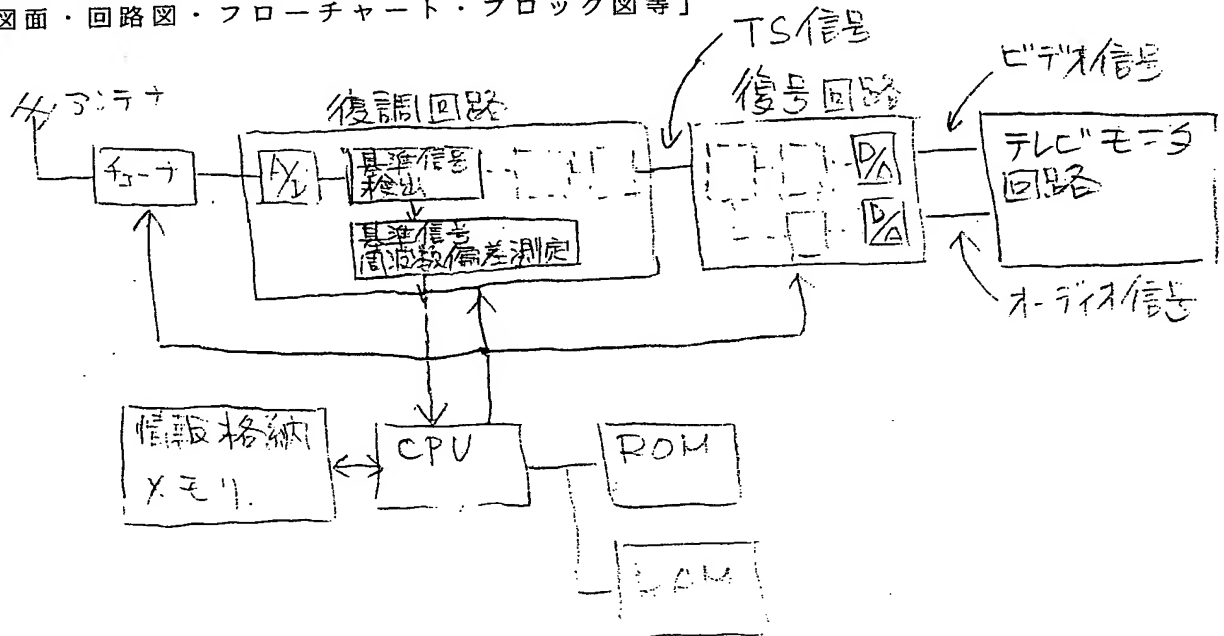
A) 発明・考案の数 (アイデアの件数を記入して下さい)									
1 件									
B) 件名 (発明・考案の名称を記入して下さい)									
デジタルTV受信機									
C) 実施予定技術かどうか (どちらかに○をつけて下さい)									
Yes (No) プロジェクト名など:									
D) 起案者 (フルネーム及び社員コードを記入して下さい)									
1.	熊野	隆夫	9	0	0	3	8	4.	
2.								5.	
3.								6.	
E) 概要 (目的と効果に分けて書き、なるべく簡略図を付けて下さい)									
[目的] デジタルTV受信機においてチューナのローカル発振周波数の誤差の発生、受信出来ず、又は受信出来るまでに時間がかかる等の問題を解決する。									
[効果] Xモリに格納した偏差情報にもとづきチューナの設定を変えらるにより、受信出来る、又は受信出来るまでの時間が大幅に短縮される。									

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【内容・実施例の構成】

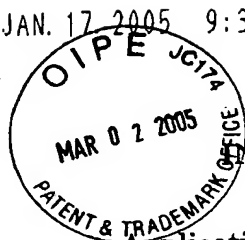
- 1 信号復調のための基準信号を有するデジタルTVシステム  
において、基準信号検出と基準信号周波数偏差測定  
回路と周波数偏差情報格納メモリを有し、検出し  
た基準信号の周波数と本来あるべき基準周波数との  
偏差情報を格納する受信機。
2. 上記信号復調のための基準信号を有するデジタルTV  
システムは、米国地上波デジタルTV(ATSC)システム  
である受信機。

【図面・回路図・フローチャート・ブロック図等】



【従来技術】検出した基準周波数と本来あるべき周波数との差  
が多いとIC内部データが復調出来ない。チューナのローカル  
周波数の誤差が大きいと受信出来ないことがあった。

F) 添付資料（他社公報・カタログ・CAD図面等）



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/075,587 Confirmation No.: 9412  
 Applicant : Takao WASHINO  
 Filed : February 15, 2002  
 TC/A.U. : 2614  
 Examiner : Victor Kostak  
 Docket No. : 3064IT/50929  
 Customer No. : 23911  
 Title : Receiving Device Used in High-Definition Television

**DECLARATION UNDER 37 C.F.R. § 1.131**

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

I, Shinichi MIZOO, hereby declare that:

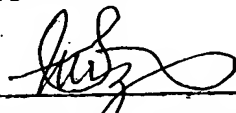
1. I am the General Manager of Funai Electric Co., Ltd. ("Funai")
2. Funai is the assignee of the above-identified application, by way of an assignment from the sole inventor, Mr. Takao Washino, in favor of Funai. The assignment was recorded with the U.S. Patent and Trademark Office's Assignment Division at Reel/Frame 012603/0984.
3. Mr. Washino is no longer employed by Funai, and his current address and location are unknown to Funai.
4. The invention disclosed and claimed in the above-identified application, including claims 2 and 3 thereof, was conceived prior to January 9, 2001, in Japan.
5. Conception of the invention is evidenced by the attached "Request for Patent/Utility model application" and its English translation.
6. The Request for Patent/Utility model application from the inventor has an assignee receipt date of November 8, 2000, which is prior to January 9, 2001. The request has a decision date of December 15, 2000, for evaluation, and for the preparation of Japanese Patent Application No. 2001-38948, the priority of which was claimed by the above-identified U.S. application.

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Serial No. 10/075,587  
Declaration Under 37 C.F.R. § 1.181

7. The assignee was diligent from just prior to January 9, 2001 to February 15, 2001, the filing date of Japanese Patent Application No. 2001-38948, as it was in the process of preparing the written description and drawings of Japanese Patent Application No. 2001-38948.
8. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and/or imprisonment, or both under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

February 4, 2005

  
Shinichi MIZOO, General Manager